

Unit 2 Quiz #1

No calculator. Please circle your answer.

1. Insert < or > to make each statement true.

a. -2.6 > -2.64

b. 6.8 > $6\frac{3}{4}$

2. Find the opposite of each number.

a. -12

12

b. $(13.7 - 6)$
77

-7.7

3. Evaluate.

a. $|2 - 7| =$ 5
 $|1 - 5|$

b. $-(-2) =$ 2

4. Name a value of x such that:a. $-x$ is negative.

e.g. 6

b. $-x$ is positive.

e.g. -5

c. $-x$ is neither positive nor negative.

0

5. Find each sum. Reduce fractions.

a. $-7 + 4$

-3

b. $0.18 + (-3.42)$

-3.24

$$\begin{array}{r} 3.42 \\ -.18 \\ \hline 3.24 \end{array}$$

c. $-\frac{1}{5} + \frac{5}{6}$

$$-\frac{6}{30} + \frac{25}{30} = \frac{19}{30}$$

6. Find each difference. Reduce fractions.

a. $-8 + 5$

$=$ -3

b. $24 + (+24)$

48

c. $\frac{1}{8} + \frac{3}{8}$

$= \frac{-2}{8} =$ $-\frac{1}{4}$

7. Let $a = 5$, $b = 3$, and $c = -6$. Evaluate each expression.

a. $a + (-b)$

$$5 + -3 = \textcircled{2}$$

b. $-a + (-b)$

$$-5 + (-3) = \textcircled{-8}$$

c. $-c + (-b) + (a) + (-b)$

$$6 + (-3) + 5 + (-3) \\ = \textcircled{5}$$

8. Let $x = 5$, $y = -3$, and $z = -11$. Evaluate each expression.

a. $x - y$

$$5 - (-3)$$

$$5 + 3$$

$$\textcircled{8}$$

b. $-x - y$

$$-5 - (-3)$$

$$-5 + 3$$

$$\textcircled{-2}$$

c. $-z - (-y)$

$$11 - 3$$

$$\textcircled{8}$$

9. Find the distance between each pair of points on a number line.

a. $-5, 14$

$$14 - (-5)$$

$$14 + 5$$

$$\textcircled{19}$$

b. $-45, -23$

$$-23 - (-45)$$

$$-23 + 45$$

$$\textcircled{22}$$

10. Mr. Burns, a keen cyclist, wants to improve his time on his ride to school by 14 minutes this week. If his best time last week was 1 hour, 8 minutes, what is his goal for this week?

$$1 \text{ hr. } 8 \text{ min}$$

$$- 8 \text{ min}$$

$$- 6 \text{ min}$$

$$\textcircled{54 \text{ min}}$$

Beware of careless errors! Go back and check your answers carefully...